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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/752,573	12/28/2000	Nicholas G. Samra	2207/10612 9823		
7	03/02/2006		EXAMINER		
KENYON & KENYON			TREAT, WILLIAM M		
333 W. San Carlos, Street, Suite 600 San Jose, CA 95110-2711			ART UNIT	PAPER NUMBER	
			2181		
			DATE MAIL ED. 02/02/200	,	

Please find below and/or attached an Office communication concerning this application or proceeding.

		E				
	Application No.	Applicant(s)				
	09/752,573	SAMRA ET AL.				
Office Action Summary	Examiner	Art Unit				
	William M. Treat	2181				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONED	l. ely filed he mailing date of this communication. 0 (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 Fe	bruary 2006.					
	action is non-final.					
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E.	x <i>parte Quayle</i> , 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-23 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	n from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-23</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ acce	pted or b) $\square$ objected to by the E	xaminer.				
Applicant may not request that any objection to the d						
Replacement drawing sheet(s) including the correction						
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign part a) All b) Some * c) None of:	oriority under 35 U.S.C. § 119(a)-	(d) or (f).				
1. Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents		n No				
	_					
application from the International Bureau	(PCT Rule 17.2(a)).	-				
* See the attached detailed Office action for a list of	f the certified copies not received	1.				

Attachment(s)

1)	ш	Nonce	OI	References	Cited	(F	10-092)	

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)	
Paper No(s)/Mail Date	
5) 🔲 Notice of Informal Patent Application (PTO-152	)

6) Other: \_\_\_\_.

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by reference.

1. Claims 1-23 are presented for examination.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-4, 8-16, and 20-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Keller (Patent No. 6,636,959).
- 4. The reasons presented in the examiner's previous actions for rejecting claims 1-4, 8-16, and 20-22 as being anticipated by Keller continue and are, hereby, incorporated
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 7. Claims 5-7, 17-19, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keller (Patent No. 6,636,959) in view of Moudgill (Register Renaming...).
- 8. The reasons presented in the examiner's previous actions for rejecting claims 1-4, 8-16, and 20-22 as being obvious over Keller (Patent No. 6,636,959) in view of Moudgill (Register Renaming...) continue and are, hereby, incorporated by reference.
- 9. Applicant's arguments filed 5/11/05 have been fully considered, but they are not persuasive.
- 10. Applicants have argued on behalf of claims 1-23 that Keller fails to teach or suggest "determining a set of rename resources needed for said trace cache line on a per-packet basis based on relationships between the initial sequence of instructions" as recited in claims 1, 11, and 22.
- 11. At col. 23, lines 16-28, Keller states: "A line is also terminated if the number of instruction operations generated by decoding instructions within the line reaches a predefined maximum number of instruction operations (e.g. 6 in the present embodiment). Moreover, a line is terminated if a page crossing is detected while decoding an instruction within the line (and the continuation field is set). Finally, the line is terminated if the instructions within the line update a predefined maximum number of destination registers. This termination condition is set such that the maximum number of register renames that map unit 30 may assign during a clock cycle is not exceeded. In

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the present embodiment, 4 renames may be the maximum." As explained by the examiner in his previous advisory action: "Keller inherently determines/assigns a set of rename resources needed for a trace cache line on a per-packet basis. Remember, he terminates adding instructions to a cache line/packet when adding any more instructions would exceed the maximum capacity of his map unit to assign a set of rename resources. If he were determining/assigning on the basis of less than a cache line/packet instead of a cache line/packet, this maximum would be irrelevant. If he were determining/assigning on the basis of something greater than a cache line/packet, the maximum would also be irrelevant." Also, note that Keller sets a maximum number of instruction operations per cache line/packet as 6 (col. 23, lines 16-20, see above). If he were assuming (for example) a fixed, one-destination-register per instruction operation as applicants are arguing, he would set his maximum at 4 because 6 would be irrelevant since there would never be more than four instruction operations in a cache line/packet because of the 4-renames restriction.

- 12. This is an RCE of applicant's earlier Application No. 09/752,573. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 13. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 14. Any inquiry concerning this communication should be directed to William M.

  Treat at telephone number (571) 272-4175. The examiner works at home on

  Wednesdays but may normally be reached on Wednesdays by leaving a voice message using his office phone number. The examiner also works a flexible schedule but may normally be reached in the afternoon and evening on three of the four remaining weekdays.
- 15. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WILLIAM M. TREAT PRIMARY EXAMINER